DUB AUDIO SERIES

by Audiobahn

HIGH PROFILE CAR AUDIO AND ACCESSORIES

MODEL NO.

DUB800D
DUB1800D

CLASS D AMPLIFIERS

WWW.AUDIOBAHNINC.COM

The Audiobahn Way

To bring the product to market that excites the consumer through sound and vision from an orientation of integrity and customer service. We make you look as good as you sound. We strive to take car audio to an extreme the world has never seen, and a world that never stops evolving.

Audiobahn was established in 1997 with one long-term goal in mind, **"Build it Bigger, Badder, & Better, and the people will take notice!"** We back this statement with an engineering team that has brought home several Innovations, Design & Engineering Showcase Awards, and a marketing team from around the world that spends countless hours developing our no compromise products to satisfy the most discriminating enthusiasts.

Our global manufacturing facilities feature ISO9002 ratings (the highest level of quality control awarded in the electronics manufacturing industry), fully robotic assembly lines and a state of the art, California based R & D laboratory.

Due to overwhelming response from our competitors, and our goal to participate in even more events this year, we created *"Team Audiobahn." This organization is designed to create a support network along with shirts and perks for team members. "Team Audiobahn" is not only for the diehard competitor, but also for anyone that loves car audio as much as we do. With four levels of play, one is right for you to get started in the Audiobahn family.

Our Technical Department and entire staff look to strive above and beyond the rest of the pack by going that extra mile to help you out. Whether you happen to be a veteran competitor, or a beginner car audio enthusiast that does not know a voice coil from a spider. We are all here to help you get the best system you can with what you have.

Judge for yourself, and remember what it's all about, **"If it's not Bigger, Badder & Better, it's not Audiobahn."** If audio is your life, Audiobahn is the brand for you! We make you look as good as you sound. People never stop trying to get the best product, so we will never stop making it.

*To learn more about "Team Audiobahn" please give us a call, see our website at www.audiobahninc.com, or email us at team@audiobahninc.com to learn about all the details.

Introduction

HIGH PROFILE CAR AUDIO AND ACCESSORIES

Dear Customer,

Congratulations on your purchase of the worlds finest brand of car audio products. Here at DUB audio we are devoted to making our musical reproduction the very best, and we are pleased you have chosen our product. Through years of engineering expertise, hand craftsmanship, and critical testing procedures, we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your DUB audio product installed by an Authorized DUB audio Dealer. Please read your warranty, keep your receipt, and original carton for possible future use.

To get a free brochure on DUB audio products in the U.S. call (714) 988-0400 or e-mail us at www.dubaudioseries.com

WARNING

Continuous exposure to sound pressure levels over 100 dB may cause permanent hearing loss. High powered autosound systems may produce sound pressure levels well over 135dB. Need we say more! Use common sense.

If after reading this manual, you still have questions regarding your product, we recommend that you see your nearest DUB audio Dealer. A list of Authorized DUB audio Dealers can be found on our web page. If you need further assistance, feel free to call us at (800)488-8595 and ask for the Technical Department. Be sure to have the model number, date of purchase, and invoice number available when you call.

The model number can be located on the outside of the carton. Record this in the space provided below along with the date of purchase. It is a good idea to keep your receipt with this, as you will need it in the case of a warranty repair or exchange.

Model Number:_____

Date of Purchase: _____

Table of Contents

HIGH PROFILE CAR AUDIO AND ACCESSORIES

INTRODUCTION 01
TABLE OF CONTENTS 02
FEATURES AND SPECIFICATIONS 03
CONTROLS AND FUNCTIONS 04-07
PLANNING AND MOUNTING 08
LOW LEVEL INPUT WIRING 09
WIRING DIAGRAMS 10-12
SYSTEM WIRING 13-14
TUNING AND ADJUSTING 15
TROUBLESHOOTING 16
WARNING AND DISCLAIMER 17
WARRANTY 18-19

Getting Started

WELCOME TO DUB AUDIO THIS MANUAL HAS BEEN DESIGNED TO PROVIDE INFORMATION FOR THE OWNER, SALESPERSON, AND INSTALLER. FOR THOSE OF YOU WHO WANT QUICK INFORMATION ON HOW TO INSTALL THIS PRODUCT, PLEASE TURN TO THE INSTALLATION SECTION OF THIS MANUAL. OTHER INFORMATION CAN BE LOCATED BY USING THE TABLE OF CONTENTS. WE AT AUDIOBAHN HAVE WORKED VERY HARD TO MAKE SURE THAT ALL OF THE INFORMATION IN THIS MANUAL IS CURRENT, BUT, AS WE ARE COSTANTLY FINDING NEW WAYS TO IMPROVE OUR PRODUCT, THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. ALL UPDATED INFORMATION CAN BE FOUND ON OUR WEB PAGE IN THE TECHNICAL SUPPORT SECTION.

FEATURES AND SPECIFICATIONS

HIGH PROFILE CAR AUDIO AND ACCESSORIES

- Class D circuitry
- Multi Stranded Power Supply Toroids
- Double Sided Glass Epoxy Circuit Board;
- Remote Control With Blue Backlight Knobs
- Top Mount Controls With Blue Illumination
- Throughput RCA Connections
- 4-way Protection Circuitry: Thermal, Short Circuit, Overload, and DC Offset
- Cooling Fan
- Chrome DUB Fan Grille
- Digital Display Volt Meter
- I/O Port
- Brushed Aluminum Chassis
- Balanced Line Inputs
- Power Output

DUB800D

INTO 4 OHM MONO----------1 x 300 WATTS RMS Power
INTO 2 OHM MONO----------1 x 500 WATTS RMS Power
INTO 1 OHM MONO----------1 x 800 WATTS RMS Power

DUB1800D

INTO 4 OHM MONO----------1 x 600 WATTS RMS Power
INTO 2 OHM MONO----------1 x 1200 WATTS RMS Power
INTO 1 OHM MONO----------1 x 1800 WATTS RMS Power

- FREQUENCY RESPONSE----------(+/-dB)10Hz To 150Hz
- VARIABLE BASS BOOST----------0-18dB
- BASS BOOST FREQUENCY----------40Hz To 100Hz
- SUBSONIC FILTER VARIABLE----------15Hz To 40Hz
- LPF FREQUENCY VARIABLE----------50Hz To 150Hz
- SIGNAL TO NOISE RATIO----------->100dB
- T.H.D.----------0.02%
- RECOMMENDED FUSE SIZE

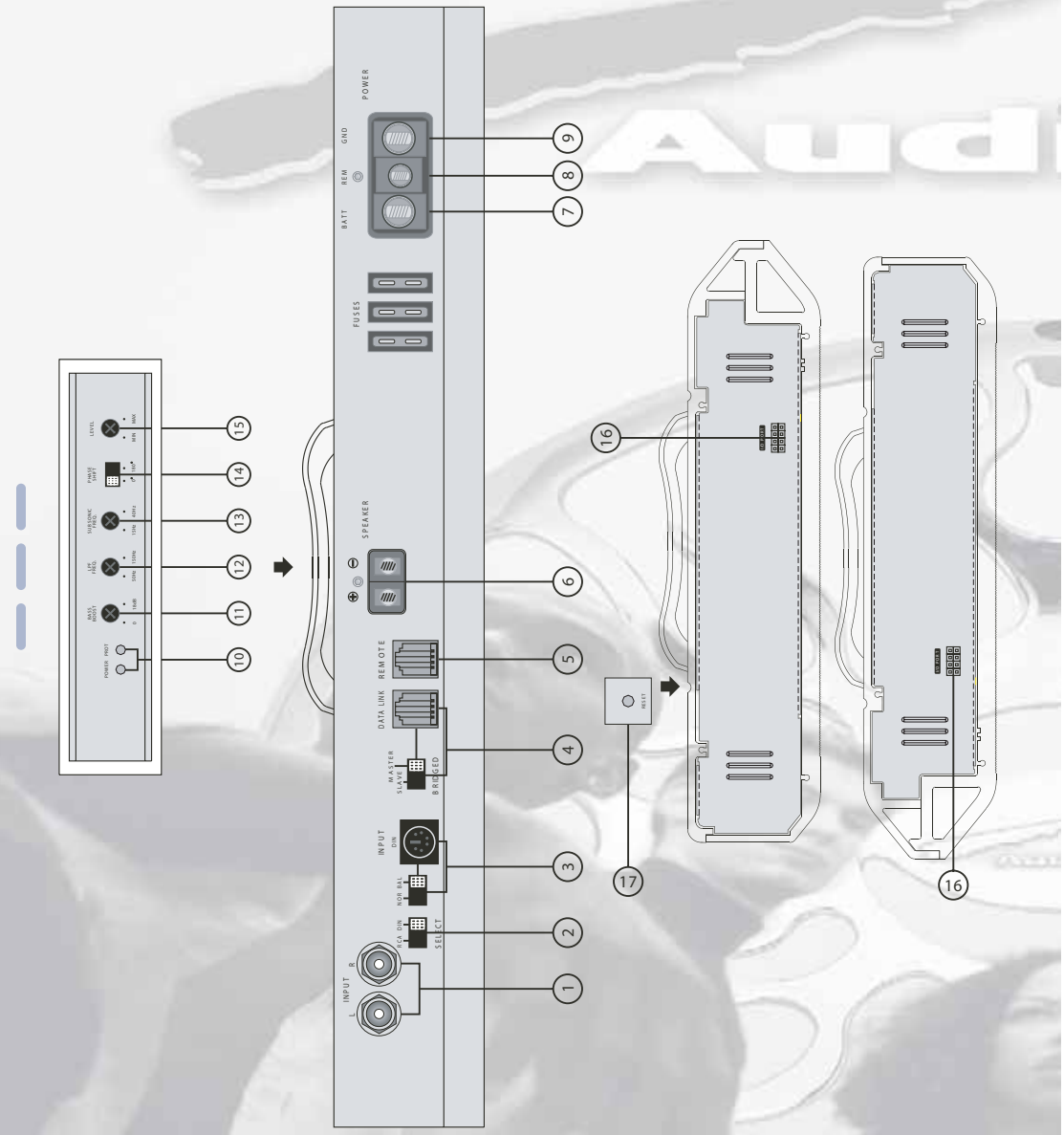
DUB800D :30A x 3
DUB1800D:40A x 5

- DIMENSIONS

DUB800D(W x H x D) : 11 15/16" x 2 1/2" x 15"
DUB1800D(W x H x D) : 11 15/16" x 2 1/2" x 21"

CONTROLS AND FUNCTIONS

HIGH PROFILE CAR AUDIO AND ACCESSORIES



1. LOW LEVEL INPUT RCA JACKS
   These Inputs are for signal cables from the source unit. Always use high quality shielded RCA cables.

2. SELECT

3. INPUT BALANCED
   BAL(Balance): Min Din Jack, NOR(Normal): RCA Phone Jack.

4. BRIDGED MODE
   Note that on amp must be set to "Master" position while the other is set to "Slave".

5. BASS REMOTE
   This is the connection for the bass control knob which, cotrols the bass boost signal level.

6. SPEAKER TERMINALS
   These nickel plated connectors can accept from 16 to 8 gage wire.
   Be careful to observe proper polarity when connecting the cables.

7. BATTERY POSITIVE TERMINAL
   Due to power requirements of the Amplifier, this connection should be made directly to the positive (+) terminal of battery for a safety measure, install an in-line fuse Holder (not included) as close to the battery positive (+) terminal as possible with an ampere rating; not to exceed the total value of fuses in Amp.

8. REMOTE TURN-ON INPUT
   T o remote or power antenna output of car stereo. This amplifier is turned "ON" remotely when the vehicle's stereo is turned "ON"
   NOTE: IF YOUR RADIO DOES NOT HAVE +12VOL T OUTPUT LEAD WHEN THE RADIO IS TURNED ON, THE "REMOTE" TERMINAL ON THE AMPLIFIER CAN BE CONNECTED TO VEHICLES ACCESSORY CIRCUIT THAT IS LIVE WHEN THE KEY IS "ON".

9. CHASSIS GROUND
   To avoid unwanted ignition noise caused by ground loops, it is essential that the Amplifier be grounded to a clean, bare, metal surface of the vehicle's chassis.
   NOTE: GROUND WIRE SHOULD NOT BE EXTENDED MORE THAN 3 FT(1 METER.)

10. LED INDICATOR

PROT (Protection) : The amplifier protection circuitry will disable the amplifier if input overload, short circuit or extremely high temperature conditions are detected. When the protection mode is in operation, the RED LED indicator on the side panel will be illuminated, indicating the amplifier has gone into a self-preservation mode.

POWER: This BLUE LED will illuminate when the amplifier is turned "ON". If it fails to illuminate, check the power connections to the Amplifier and fuses.

If you observe that th Protection LED is lit, please check the system carefully to determine what has caused the protection circuit to engage. The amplifier can be reset by turning the remote allow it to cool down before restarting. If the amplifier shut down because of an input overload or short circuit, be sure to repair these conditions before attempting to power up up the amplifier again.

11. BASS BOOST GAIN ADJUSTMENT

This control adjusts bass boost gain for the amplifier's speaker output(0 to 18dB). It will only work in LPF mode.

12. VARIABLE LOW PASS FILTER (50Hz to 150Hz)

For use as a dedicated subwoofer channel, set filter switch to "LPF". Adjust variable crossover frequency with control as desired. The amplifier input circuit filters out everything about 50Hz ... 150Hz(dependent on the adjustment of the frequency control).

13. VARIABLE SUBSONIC FILTER

This control adjusts the frequency(15Hz to 40Hz)

14. PHASE SHIFT SWITCH(0 to 180 degrees)

Allows you to change the phase of your subwoofer from 0 to 180 degrees to help compensate for timing differences between mid and sub drivers.

15. INPUT SENSITIVITY ADJUSTMENT

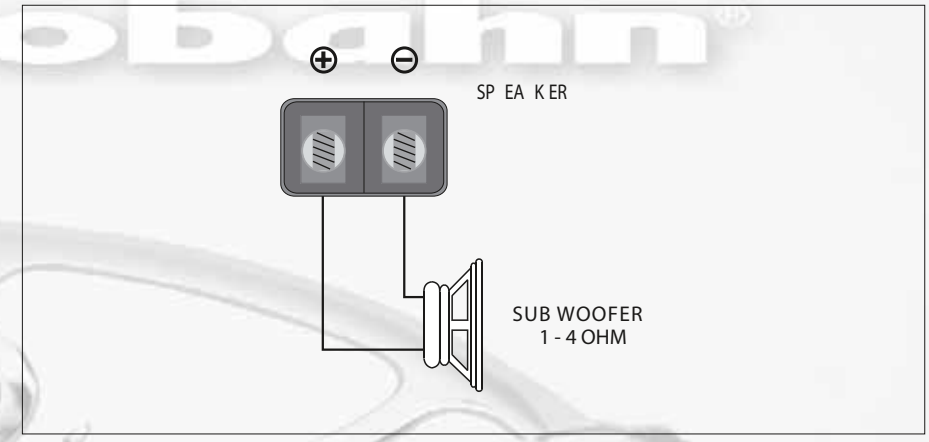
This control adjusts the amplifier's input sensitivity. Input sensitivity is variable from 200 millivolts to 8 volts. Clockwise increases sensitivity and counterclockwise decrease sensitivity.

This knob is not a volume control for the amplifier. The amplifier can be driven to full power with a wide range of signal levels. A lower signal level will require increased sensitivity for full power while a higher signal level will require decreased sensitivity.

16. I/O PORT

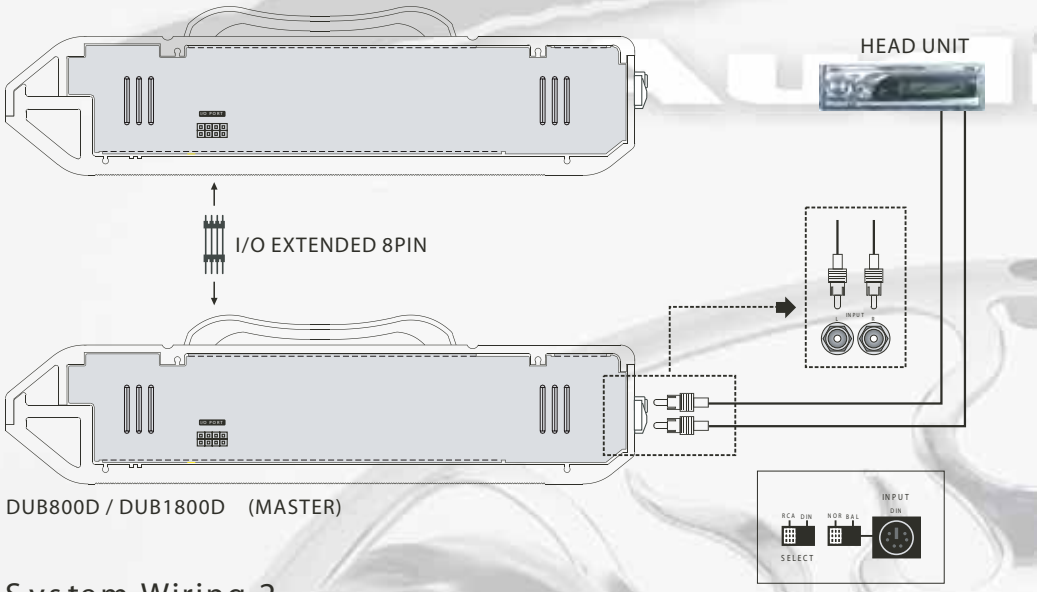
17. RESET

DUB800D / DUB1800D



System Wiring 1

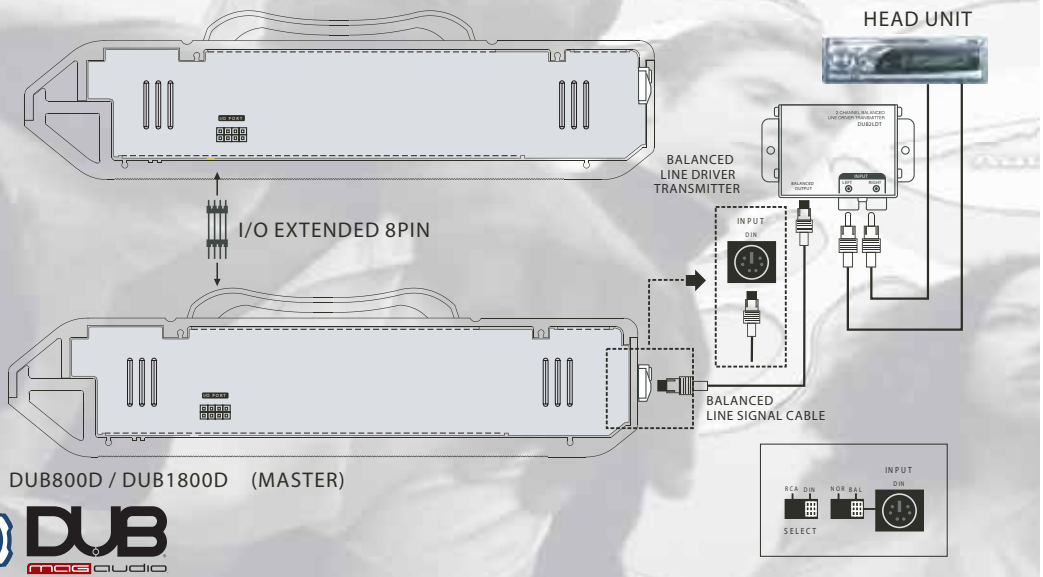
DUB800D / DUB1800D (SLAVE)



DUB800D / DUB1800D (MASTER)

System Wiring 2

DUB800D / DUB1800D (SLAVE)



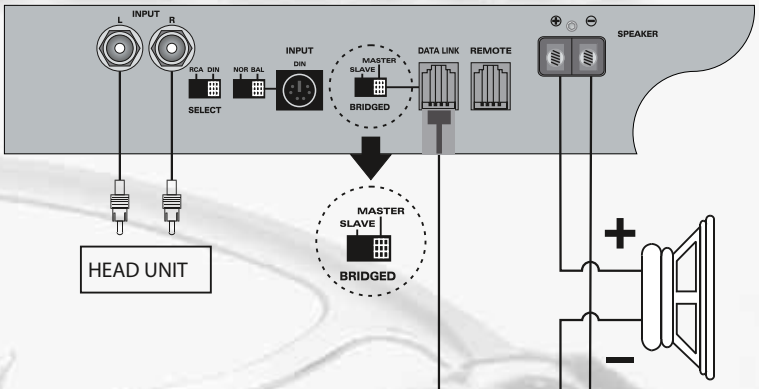
DUB800D / DUB1800D (MASTER)

BRIDGING TWO AMPLIFIERS

HIGH PROFILE CAR AUDIO AND ACCESSORIES

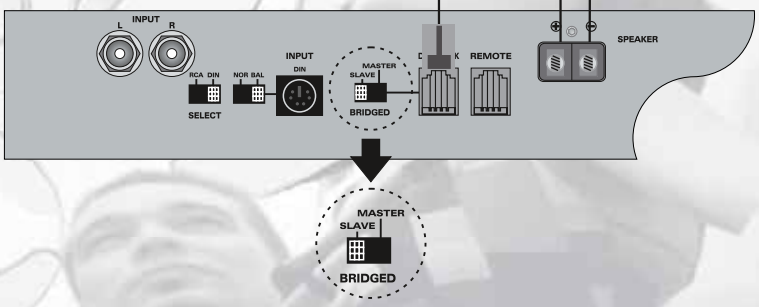
DUB800D / DUB1800D

MASTER AMPLIFIER



SPEAKER IMPEDANCE 4 OHMS!!

SLAVE AMPLIFIER



Turning On The Amplifier

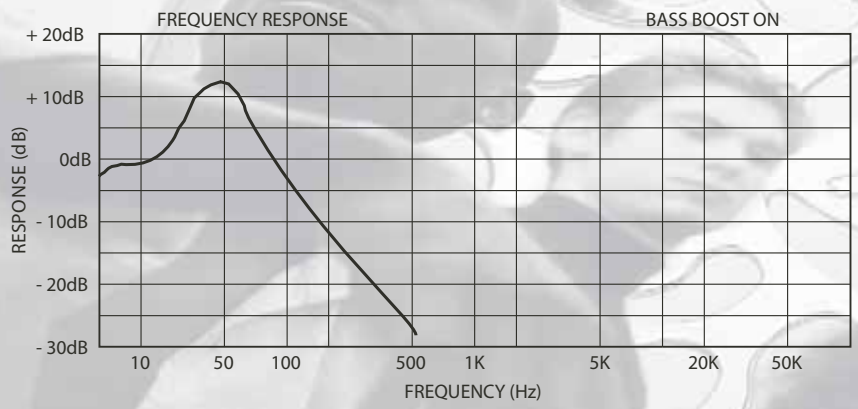
The amplifier automatically turns on a few seconds after you turn your vehicle's ignition switch to ACC or ON or turn on your auto sound system, depending on how you wired the system. The POWER indicator on the top of the amplifier lights when the amplifier is on.

Important : Your amplifier requires 30 amps or more of power from your vehicle's battery during operation. To protect your battery from discharging, do not operate the amplifier unless your vehicle is running.

Adjusting The Audio Level

For the best performance, you must set LEVEL (MIN/MAX) on the side of the amplifier to adjust the level of the audio signals that enter the amplifier.

1. Use a screwdriver to turn LEVEL (MIN/MAX) fully counterclockwise to MIN>
2. Turn the auto sound system's volume control to about one-third of its full range.
3. Adjust LEVEL (MIN/MAX) to a comfortable listening level.
4. Turn up the auto sound system's volume control until the sound begins to distort. Then immediately turn the volume down to a point just before where the distortion began.
   Caution : Never turn up the auto sound system's volume control more than needed to adjust the audio level, more than two thirds of its maximum volume.
5. Adjust LEVEL (MIN/MAX) until the sound is at the maximum level you want the amplifier to produce.
6. Adjust the auto sound system's volume control to a comfortable listening level.



NOTE : Raising the Bass frequency allows higher frequencies to reach the bass speakers while blocking lower frequencies from midrange speakers. Lowering the Bass frequency allows lower frequencies to reach the midrange speakers while blocking higher frequencies from bass speakers.

Trouble Shooting

SYMPTOMS	CHECK	POINTS CURE
NO SOUND	Is the power LED illuminated ? (NO)	Check fuses in amplifier. Be sure Turn-on lead is connected check signal leads. Check gain control. Check Tuner / Deck volume level. Clean contacts on fuse holders.
	Is the Diagnostic LED illuminated ? (YES)	Check for speaker short or amplifier overheating.
AMP NOT SWITCHING ON	No power to power wire	Repair power wire or connections.
	No power to remote wire with receiver on	Check connections to radio.
	Fuse broken	Replace fuse
NO SOUND IN ONE CHANNEL	Check Speaker Leads	Inspect for short circuit or an open connection.
	Check Audio Leads	Reverse Left and Right RCA inputs to determine if it is occurring before the amp.
AMP TURNING OFF MEDIUM/HIGH VOLUME	Speaker Check load impedance	Be sure proper speaker load impedance recommendations are observed. (If you use an ohmmeter to check speaker resistance, please remember that DC resistance and AC impedance may not be the same.)
PROTECTION LAMP ON	Temperature down shut	Turn radio down. Wait for AMP to cool.
	Speaker wires short	Separate speaker wires and insulate.

WARNING AND DISCLAIMER

WARNING

INVESTIGATE THE LAYOUT OF YOUR AUTOMOBILE THOROUGHLY BEFORE DRILLING OR CUTTING ANY HOLES TO THE AUTOMOBILE. TAKE MUCH CARE WHEN YOU WORK NEAR OR AROUND THE GAS LINES, HYDRAULIC LINES, AND ELECTRICAL WIRING. DO NOT USE A POWER AMPLIFIER UNMOUNTED AND MAKE SURE TO SECURE THE ENTIRE SYSTEM TO THE AUTOMOBILE TO PREVENT DAMAGE, PARTICULARLY IN THE EVENT OF AN ACCIDENT. DO NOT MOUNT THE SYSTEM SO THAT THE WIRE CONNECTIONS ARE UNPROTECTED OR ARE SUBJECT TO PINCING OR DAMAGE FROM NEARBY OBJECTS.

THE +12V DC POWER WIRE MUST BE FUSED AT THE BATTERY POSITIVE TERMINAL CONNECTION.(16" MAX. DISTANCE IS RECOMMENDED) BEFORE MAKING OR BREAKING POWER CONNECTIONS AT THE SYSTEM POWER TERMINALS, DISCONNECT THE +12V WIRE AT THE BATTERY END. IF YOU NEED TO REPLACE ANY POWER FUSES, MAKE SURE TO REPLACE THE FUSE WITH THE EXACT SAME SIZE RATING. USING A DIFFERENT TYPE OR RATING MAY RESULT IN DAMAGE TO THIS SYSTEM WHICH IS NOT COVERED BY THE WARRANTY.

SPECIFICATIONS
ARE SUBJECT TO CHANGE
WITHOUT NOTICE. FOR THE
MOST UP DATED SPECFICATIONS

DISCLAIMER

CALL AUDIOBAHN,OR CONTACT YOUR
LOCAL AUTHORIZED AUDIOBAHN
DEALER OR CHECK THE
AUDIOBAHN TECH
WEB SITE AT:

WWW.AUDIOBAHNINC.COM

Audiobahn Consumer Product Warranty Policy

Audiobahn products are manufactured with the highest quality components and some of the most advanced technology available. Because of this, we recommend that you have your new products installed by an Authorized Audiobahn Dealer.(A list of Authorized Audiobahn Dealers can be found on our web page).

Warranty Period: One year from the original date of purchase.

Warranty Coverage: This warranty covers manufacturer defects only. The warranty is applicable to the original purchaser, and is non-transferable. You must have a receipt from an Authorized Audiobahn Dealer that shows the location of purchase, price paid, and date of purchase.

(Products purchased by consumers from an Authorized Audiobahn Dealer outside the United States, are covered only by that countries Distributor and not by Audiobahn).

Notes:
Complete subwoofer enclosures (Audiobahn will replace defective subwoofers, plexiglass, or neon only. Do not send the entire enclosure, unless the enclosure is defective itself. You must receive prior authorization and an RA# before sending in any complete enclosure).

Audiobahn will only replace L.E.D.(s) found to be defective at the time of purchase.

Audiobahn warranties do not cover the following:

- Any product not purchased from an Authorized Audiobahn Dealer (including Internet dealers)
- Damage caused by abuse, misuse, accident, water / flood, or theft (including any cosmetic damage to the body of the product)
- Damage caused by improper installation
- Any cost or expense related to removal or reinstallation
- Any unauthorized services
- Any product that has the serial number removed, altered, or defaced
- Subsequent damage to any other components
- Pinched, cut, or stripped wires
- Any product that is new, and/or found to be in working condition
- L.E.D. indicators on electronics

Warranty Cont

HIGH PROFILE CAR AUDIO AND ACCESSORIES

How to receive warranty service: Contact your local Authorized DUB audio Dealer, or call audiobahn at (800) 488-8595 between the hours of 9:00 AM and 5:00 PM PST.

If you are having problems with your system, we recommend you check the product carefully and thoroughly to confirm that the product truly has a manufacturer defect; as opposed to abuse, or other components in the system causing the failure. This might include having an Authorized Audiobahn Dealer look at the product to confirm the source of the problem. Any product found to have a manufacturer defect will be replaced with a new piece of the same or similar model, or repaired at the discretion of Audiobahn. Any product found to have no manufacturer defect will be returned to the sender at their cost.

You must acquire a Return Authorization Number (RA #) prior to returning ANY product to Audiobahn. That Return Authorization Number (RA #) must be prominently and clearly marked on the outside of the shipping carton, or product delivery will be refused (no exceptions will be made).

Please note: All shipping and handling (to and from) charges will be the sole responsibility of the consumer.

Please record and keep your Return Authorization Number (RA #) in the event that further communication is required.

Return Authorization Number (RA #):_____

Date product was sent:_____

Contact Information

Audiobahn Headquarters
114 South Berry St.
Brea, CA 92821
Phone (800)488-8595 Fax. (714)988-0433
Pacific Coast Time : 9am-5pm Mon. - Fri.
tech@audiobahninc.com

by Audiobahn®

DUB

DUB® and it's marks are a registered trademark of DUB Publishing, Inc. All Rights Reserved

Audiobahn® INC.

Corporate Headquaters

114 South Berry St. Brea, California 92821

Phone: 714-988-0400 • Fax: 714-988-0433

www.audiobahninc.com

PROUD SPONSER OF

dB Drag Racing

USAC United States Auto Sound Competition

IASCA International Auto Sound Challenge Association

Hot Import Nights

NOPI

CEA Consumer Electronics Association

MECA

SEMA Member

MECP mobile electronics certification program